

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"10565422"	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/15 08:08
S2	4279	surge near (suppressor arrester arrestor protector protecter suppresser)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/15 09:06
S4	1118	S2 and (discharge near gap gap air near gap)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/15 09:07
S5	22	S4 and oxide near film	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/15 09:07
S6	43	337/18.ccls.	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/15 09:15
S7	67	337/19.ccls.	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/15 09:19
S8	66	S7 not S6	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/15 09:19
S9	3	"6788519"	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 12:33
S10	2	"02046680"	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 12:41
S11	2	(5714794 5915757). pn.	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 12:45

S12	4283	surge near (suppressor arrester arrestor protector protector suppresser)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 12:57
S13	46	S12 and conductive near film	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 12:57
S14	5	("4029380" "5365660" "5574610" "6118664" "6424514").PN.	US_PGPUB; USPAT; USOCR	OR	ON	2008/04/23 13:02
S15	1	("6655012").URPN.	USPAT	OR	ON	2008/04/23 13:03
S16	2	("4240124" "4910632").PN.	US_PGPUB; USPAT; USOCR	OR	ON	2008/04/23 13:10
S17	3	("5559663").URPN.	USPAT	OR	ON	2008/04/23 13:10
S18	103	(over\$1voltage over adj voltage) with (opto photo\$1diode photo \$1transistor)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 15:52
S19	43284	oxide near film with electrode	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 17:06
S20	42874	oxide adj film with electrode	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 17:06
S21	3	oxide adj film with electrode same surge adj protect\$3	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 17:06
S22	37	oxide adj film with electrode and surge adj protect\$3	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 17:07
S23	1	oxide adj film with electrode and (lighting lightning) adj (arrestor arrester)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 17:15
S24	970	yoshiyuki near tanaka. inv.	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 17:22

S25	265	yoshiyuki near tanaka. inv.	US_PGPUB; USPAT; EPO; IBM_TDB	OR	ON	2008/04/23 17:23
S26	12	("1889105" "1949623" "2081051" "2700126" "3431452" "4608320" "4729053").PN.	US_PGPUB; USPAT; USOCR	OR	ON	2008/04/23 17:35
S27	3	("5506071").URPN.	USPAT	OR	ON	2008/04/23 17:36
S28	9	"4410831"	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 19:30
S29	12	"3989985"	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/04/23 19:31
S30	3	("5506071").URPN.	USPAT	OR	ON	2008/09/30 10:27
S31	5	("4117589" "4276536" "4512871" "5436608" "5506071").PN.	US_PGPUB; USPAT; USOCR	OR	ON	2008/09/30 10:29
S32	38	("20020192559" "3443306" "3600017" "3646405" "3733686" "4213558" "4352714" "4372038" "4479168" "4532489" "4538212" "4690480" "4831708" "4966748" "4992345" "5001299" "5041019" "5109594" "5110307" "5250845" "5298683" "5397661" "5405272" "5433260" "5500026" "5506071" "5535097" "5675122" "5701758" "5811206" "6071557" "6090503" "6127064" "6132900" "6506514" "6554178" "6635382").PN.	US_PGPUB; USPAT; USOCR	OR	ON	2008/09/30 10:29

S33	7	("3816798" "5325259" "5436608" "5506071" "5963413" "6111740" "6788519").PN.	US_PGPUB; USPAT; USOCR	OR	ON	2008/09/30 10:31
S34	11034	(chromium chrom cr) with oxide with surface	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/09/30 11:13
S35	132	oxide near film with (chromium chrom cr) near surface	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/09/30 11:14
S36	15	"3,887,483"	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/08 15:54
S37	7	"3,887,843"	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/08 15:55
S38	2933	(surge absorpt\$3 suppress\$3) and oxide near (layer film) with (cr chrom\$5)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/08 19:05
S39	432	(surge absorpt\$3 suppress\$3) and oxide near (layer film) with (cr chrom\$5) with (electrode member terminal)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/08 19:06
S40	42	(surge absorpt\$3 suppress\$3) and oxide near (layer film) near3 (cr chrom\$5) near3 (electrode member terminal)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 08:05
S41	10	("4540910" "4670684" "4853582" "4881913" "5465022" "5488262" "6307307" "6346766").PN. OR ("6621198").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2009/04/09 08:15
S42	432	(surge absorpt\$3 suppress\$3) and oxide near (layer film) with (cr chrom\$5) with (electrode member terminal)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 08:24

S43	390	S42 not S40	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 08:24
S44	4	chromimum near oxide	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 08:50
S45	180621	(chrom\$4 near oxide "Cr.sub.2" "O.sub.3")	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 13:54
S46	42115	(chrom\$4 near oxide "Cr.sub.2" near "O. sub.3")	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 13:54
S47	255	(surge near (absorb\$3 absorpt\$3 protect\$3 suppress\$3)) and chrom\$3	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 13:59
S48	15	("1889105" "1949623" "2081051" "2700126" "3431452" "4608320" "4729053").PN. OR ("5506071").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2009/04/09 15:52
S49	0	(chrom\$3 cr) with on with oxide near (film layer)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 17:43
S50	1	(chrom\$3 cr) same on same oxide near (film layer)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 17:43
S51	8027	(chrom\$3 cr) with oxide adj (film layer)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 17:44
S52	4608	surge near (suppressor arrester arrestor protector protector suppresser)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 17:45
S53	2	S52 and S51	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 17:45
S54	12371	surge near (suppress \$3 arrest\$3 protect\$3 absorpt\$3 absorb\$3)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 17:48

S55	5	S54 and S51	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 17:48
S56	172	(chrom chromium cr) with top with oxide near (layer film)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 18:00
S57	24	(chrom chromium cr) with top with oxide near (layer film) with (electrode terminal member discharg\$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/09 18:01
S58	41447	(chrom\$4 cr) with (electrode terminal pin)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/13 11:42
S59	961	(chrom\$4 cr) with (electrode terminal pin) with oxide near (film layer)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/13 11:43
S60	3731	(chrom\$4 cr) same (electrode terminal pin) same oxide near (film layer)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/13 11:43
S61	2186	(chrom\$4 cr) with (electrode terminal pin) same oxide near (film layer)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/13 11:44
S62	650	(chrom\$4 cr) with (electrode terminal pin) same oxide near (film layer) and (over \$1 voltage over ADJ voltage surge spike impulse pulse droop esd electrostatic ADJ discharge over ADJ current over\$1current arc\$3 spark\$3 transient nuisance spureous)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/13 11:52

S63	650	(chrom\$4 cr) with (electrode terminal pin) same oxide near (film layer) and (over \$1voltage over ADJ voltage surge spike impulse pulse droop esd electrostatic ADJ discharge over ADJ current over\$1current arc\$3 spark\$3 transient)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/13 11:52
S64	649	(chrom\$4 cr) with (electrode terminal pin) same oxide near (film layer) and (over \$1voltage over ADJ voltage surge spike impulse pulse esd electrostatic ADJ discharge over ADJ current over\$1current arc\$3 spark\$3 transient)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/13 11:53
S65	102	(chrom\$4 cr) with (electrode terminal pin) same oxide near (film layer) and (over \$1voltage over ADJ voltage surge spike impulse pulse esd electrostatic ADJ discharge over ADJ current over\$1current arc\$3 spark\$3 transient) same (absorb \$3 absorpt\$3 suppress \$3)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/13 11:55
S66	1	"11572177"	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/23 14:14
S67	4	"5559663"	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/23 14:35
S68	5	"5671114"	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/23 15:01

S69	94	chrom\$3 near4 oxide near (film layer) with (enrich\$4 concentrat \$3)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/27 15:41
S70	22	chrom\$3 near4 oxide near (film layer) with (enrich\$4 concentrat \$3) and (surge suppress\$3 arrest\$3)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/27 15:42
S71	7	chrom\$3 with oxide near3 film with (enrichment enriched)	US_PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2009/04/27 16:00
S72	88	(surge suppress\$3 arrest\$3) same high near voltage same indicator	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/27 16:20
S73	3	("5506071").URPN.	USPAT	OR	ON	2009/04/28 09:03
S74	99538	(oxide oxidation oxidiz \$3) near (method process treatment way)	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/28 12:21
S75	209	(oxide oxidation oxidiz \$3) near (method process treatment way) with (reduc\$3 lower\$3 decreas\$3) near atmosphere	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/28 12:22
S76	12	(oxide oxidation oxidiz \$3) near (method process treatment way) same (reduc\$3 lower\$3 decreas\$3) near atmosphere same oxygen near concentration	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/04/28 12:23
S77	14	(surge absorb\$3 absorpt\$3 suppress\$3) and (chrom\$6 crom\$6) and 361/120.ccls.	US_PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2009/10/13 18:20

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